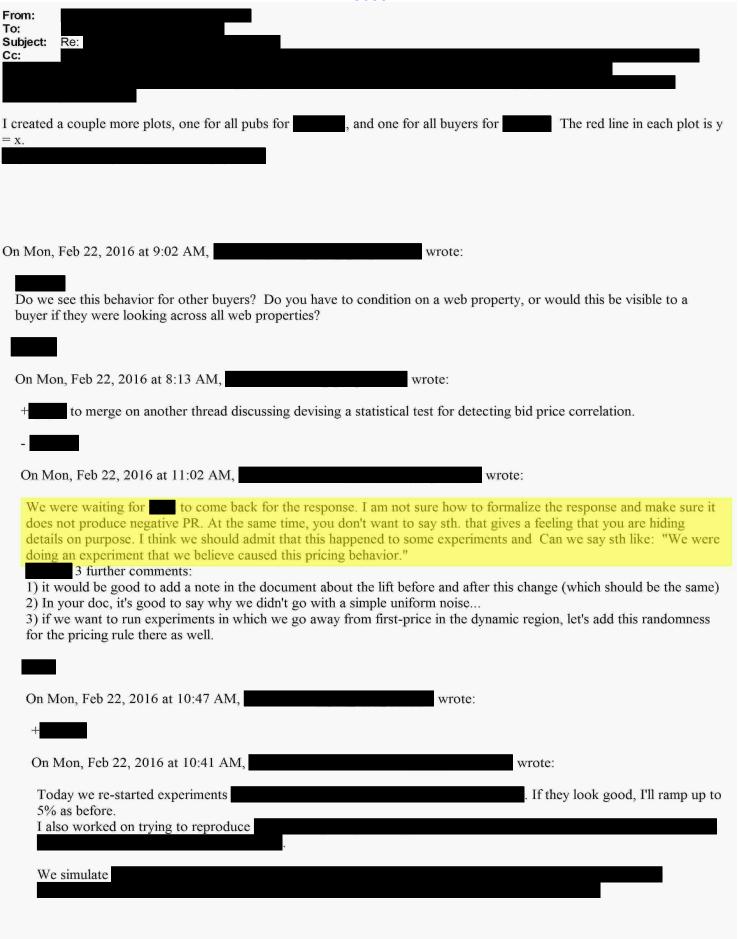
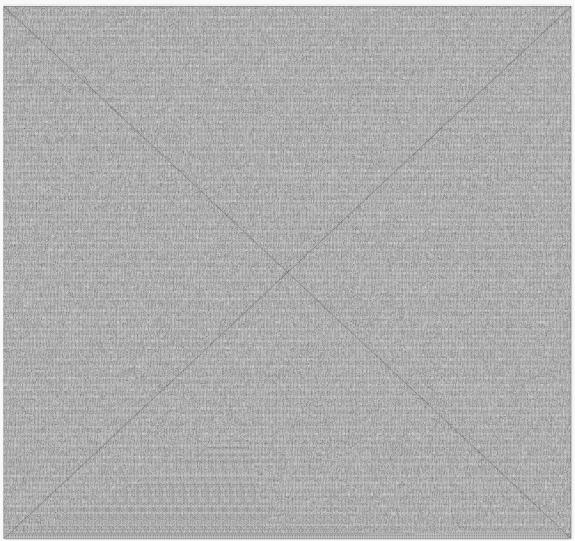
EXHIBIT 202 REDACTED

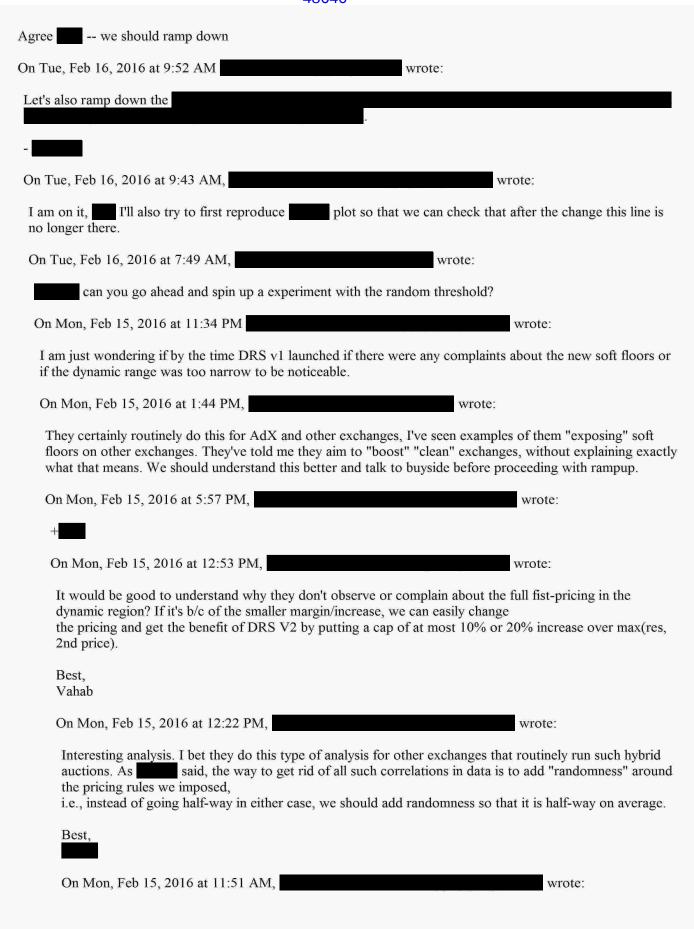


In the first plot you can see bid vs price and

there are indeed those very pronounced lines.



Next we simulate using the randomized threshold in the next figure. The effect is no longer there. Or to be more precise, it is not so visually apparent. It would be great to devise some statistical test to catch such correlations whenever they exist (even if they are not visually apparent).



This is very interesting to see that DRS v2 effects are visible outside. I do believe this is DRS v2, but I think this is not due to half_way pricing in the dynamic region. I believe the culprit it buyer debt recollection. When a buyer has debt and he bids above the floor price, then we recollect an amount up to half of the bid price gap (which is exactly (floor + bid) / 2). There are two reasons why I think this is the effect and not the pricing in the dynamic region:

* the correlation goes from bids 5 to 10. In the second plot it goes from 4 to 10, which is more than twice. The dynamic region effect would create such lines only for stretches of r to r*1.25.

* the bid price correlations in DRS v1 (bid = price in the dynamic region) are stronger and complaining about them. Or are they? If not, then I'd say that they are not very sensitive to correlations in the dynamic region (since it is such a short stretch of bids), but they are sensible to correlations for long stretches.

Experiments we are running:
Question: did (or others) complained about unfairness in DRS v1 ? Did they detect bid / price correlation then ?
Ideas to fix it: when we recollect debt, instead of capping at the midpoint of the bid price gap, cap at a random threshold in the bid - price gap. This way they won't see this correlation. In long term, we should think of all possible ways such correlations can be detected.
On Sun, Feb 14, 2016 at 1:48 PM, wrote:
+
To me, this looks like a case of DRSv2 with HALF_WAY price recovery.
I believe we're running a 1% experiment
On Sat, Feb 13, 2016 at 8:30 PM, wrote:
+ Timing is odd too, since we just discussed RPO with though, and I don't think we would see this with RPO. DRS maybe?
On Fri, Feb 12, 2016 at 3:06 PM, wrote:
Hey as they think they found traces of dynamic flooring in our algorithm.
Data is very light, and to be honest, it looks quite linear (too linear?) to be RPO. Nevertheless, I come for guidance as this a subject we probably need to communicate carefully on.
Thanks!

Date: Fri, Feb 12, 2016 at 4:16 PM
Subject: Re: [] Dynamic Pricing on
To: